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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/853,276	05/11/2001	Randall D. Blanchard	LITD:0013	5871
21611	7590	08/10/2005		
SNELL & WILMER LLP 600 ANTON BOULEVARD SUITE 1400 COSTA MESA, CA 92626			EXAMINER RUDE, TIMOTHY L	
			ART UNIT	PAPER NUMBER
			2883	

DATE MAILED: 08/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/853,276

Applicant(s)

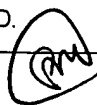
BLANCHARD, RANDALL D.

Examiner

Timothy L. Rude

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 May 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10, 12-15 and 58-70 is/are pending in the application.
- 4a) Of the above claim(s) 4, 8, 9 and 58-60 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3, 5-7, 10, 12-15 and 61-70 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claims

Claim 1 is amended. Claims 61-70 are added.

Election/Restrictions

Newly submitted claims 58-60 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons:

As to claim 58, a back-lighted display was not originally presented and is therefore considered drawn to a non-elected species.

As to claim 59, a textured surface glass transparent panel was not originally presented and is therefore considered drawn to a non-elected species.

As to claim 60, the method step recitations are considered to comprise a method of making that was restricted previously and is therefore considered drawn to a non-elected invention.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 58-60 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-3, 5, 6, 12-13, 15, 61, and 64 are rejected under 35 U.S.C. 103(a) as being unpatentable over Abileah et al (Abileah) USPAT 5,629,784 in view of Silverstein et al (Silverstein) USPAT 5,442,467

As to claims 1-3, 5, 6, 12-13, 15, 61, and 64, Abileah discloses in Figure 1 (a), a display comprising: a transmissive LCD display screen, 3-15,; a transparent glass panel, 35, (col. 8, lines 10-15) having a backside and an anti-reflective (Applicant's anti-glare) front surface (col. 14, lines 15-32, optional variant of the embodiment) configured to diffuse ambient light, which results in reduced glare (multiple examples taught); and a diffuser, 21 (Applicant's bulk diffuser), (col. 11, line 54 through col. 12, line 11, optional variant of the embodiment) disposed between the transmissive display screen and the backside. Please note that Abileah teaches optionally any known bulk diffuser may be used and any diffuser may have a roughened outer surface with AR coating conformal to the roughened outer surface. Abileah also specifically teaches the bulk diffuser may be a gelatin diffuser/filter encapsulated by two glass plates [col. 11, lines

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54-67]. Abilea further teaches the upper surface may optionally have the roughened upper surface with conformal AR coating [col. 12, lines 1-11].

Abileah also teaches plurality light sources and alternate backlight embodiments.

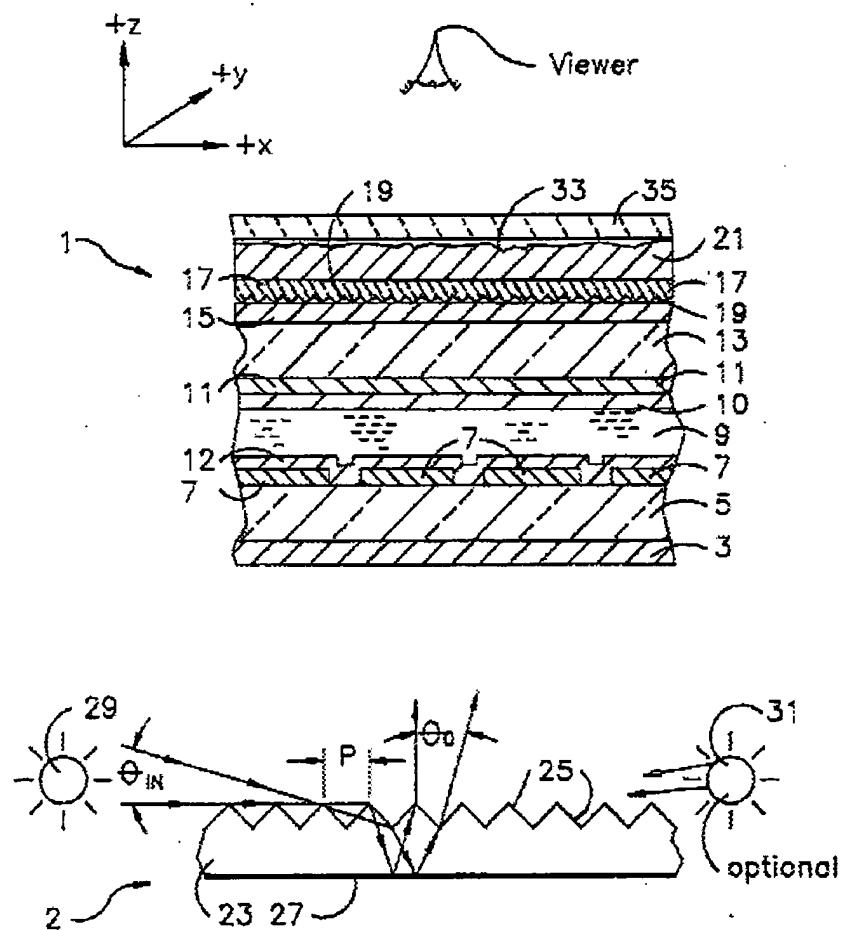
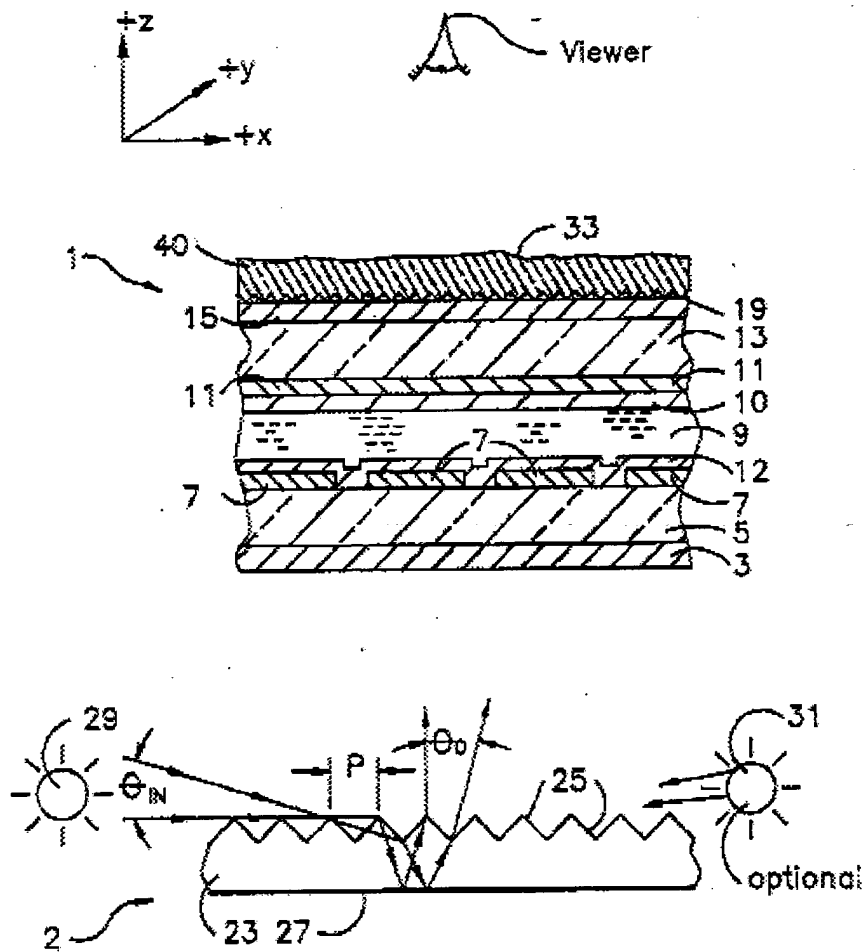


Fig. 1(a)



Abileah does not explicitly disclose 1) a bulk diffuser bonded to the transmissive display screen and the transparent panel.

Silverstein teaches the use of index of refraction matched (Applicant's index-matched) adhesives to completely bond (Applicant's bubble-free) diffusers to neighboring structures to reduce unwanted reflections and improve display contrast and color performance (col. 9, line 51 through col. 10, line 22).

Silverstein is evidence that ordinary workers in the art of liquid crystals would find the reason, suggestion, or motivation to add index of refraction matched adhesives to

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bond diffusers to both neighboring structures to reduce unwanted reflections and improve display contrast and color performance.

Therefore, it would have been obvious to one having ordinary skill in the art of liquid crystals at the time the invention was made to modify the LCD of Abileah with the index of refraction matched adhesives to bond diffusers to both neighboring structures of Silverstein to reduce unwanted reflections and improve display contrast and color performance.

As to claim 10, Abileah in view of Silverstein as combined above disclose the structure as claimed which would result in a bulk diffuser configured to reduce undesirable optical effects caused by the surface texture per Applicant's enabling disclosure. This is not improper hindsight. Applied prior art teaches all that Applicant has disclosed in the instant Specification regarding this limitation.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Abileah in view of Silverstein, as applied above, in view of Varaprasad et al (Varaprasad) USPAT 6,087,012.

As to claim 7, Abileah in view of Silverstein and Jansson disclose the system of claim 6.

Abileah in view of Silverstein does not explicitly disclose a chemically etched surface.

Varaprasad discloses in the Background of the Invention that chemical etching of the outer surface of a glass substrate is one way of forming an anti-glare surface known in the prior art (col. 1, lines 28-52).

Varaprasad is evidence that ordinary workers in the art of liquid crystals would find the reason, suggestion, or motivation to use a chemically etched glass transparent panel as having art recognized suitability for the intended purpose of achieving desired anti-glare performance (MPEP 2144.07).

Therefore, it would have been obvious to one having ordinary skill in the art of liquid crystals at the time the invention was made to modify the LCD of Abileah in view of Silverstein with the chemically etched glass transparent panel of the prior art cited by Varaprasad to achieve desired anti-glare performance.

Claims 1-3, 5, 6, 12-15, 61, and 64 are rejected under 35 U.S.C. 103(a) as being unpatentable over Abileah et al (Abileah) USPAT 5,629,784 in view of Sanelle et al (Sanelle) USPAT 5,442,467.

As to claims 1-3, 5, 6, 12-15, and 61-70, Abileah discloses in Figure 1 (a), a display comprising: a transmissive LCD display screen, 3-15,;

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a transparent glass panel, 35, (col. 8, lines 10-15) having a backside and an anti-reflective (Applicant's anti-glare) front surface (col. 14, lines 15-32, optional variant of the embodiment) configured to diffuse ambient light, which results in reduced glare (multiple examples taught); and

a diffuser, 21 (Applicant's bulk diffuser), (col. 11, line 54 through col. 12, line 11, optional variant of the embodiment) disposed between the transmissive display screen and the backside, and the bulk diffuser is configured to diffuse image light originating from a backlight, 2, of the display. Please note that Abileah teaches optionally any known bulk diffuser may be used and any diffuser may have a roughened outer surface with AR coating conformal to the roughened outer surface. Abileah also specifically teaches the bulk diffuser may be a gelatin diffuser/filter encapsulated by two glass plates [col. 11, lines 54-67]. Abilea further teaches the upper surface may optionally have the roughened upper surface with conformal AR coating [col. 12, lines 1-11].

Abileah also teaches plurality light sources and alternate backlight embodiments.

Abileah does not explicitly disclose a bulk diffuser bonded to the transmissive display screen and the transparent panel.

Sanelle teaches the use of an index-matched bond material (col 5, line 56 through col. 6, line 2) wherein the index-matched bond material has no air gaps (Applicant's substantially bubble-free) (col. 6, lines 1-2), and wherein the index-matched bond material comprises an epoxy (col. 5, lines 66 and 67) to eliminate unwanted refractions and thereby improve display performance.

Sanelle is evidence that ordinary workers in the art of liquid crystals would find the reason, suggestion, or motivation to add an index-matched bond material on both sides of the bulk diffuser wherein the index-matched bond material is bubble-free, and wherein the index-matched bond material comprises an epoxy, to eliminate unwanted refractions and thereby improve display performance.

Therefore, it would have been obvious to one having ordinary skill in the art of liquid crystals at the time the invention was made to modify the LCD of Abileah with the index-matched bond material on both sides of the bulk diffuser wherein the index-matched bond material is bubble-free, and wherein the index-matched bond material comprises an epoxy of Sanelle, to eliminate unwanted refractions and thereby improve display performance.

As to claim 10, Abileah in view of Sanelle, as combined above, disclose the structure as claimed which would result in a bulk diffuser configured to reduce undesirable optical effects caused by the surface texture per Applicant's enabling disclosure. This is not improper hindsight. Applied prior art teaches all that Applicant has disclosed in the instant Specification regarding this limitation.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Abileah in view of Sanelle and further in view of Varaprasad et al (Varaprasad) USPAT 6,087,012.

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As to claim 7, Abileah in view of Sanelle, as combined above, disclose the system of claim 6.

Abileah in view of Sanelle does not explicitly disclose a chemically etched surface.

Varaprasad discloses in the Background of the Invention that chemical etching of the outer surface of a glass substrate is one way of forming an anti-glare surface known in the prior art (col. 1, lines 28-52).

Varaprasad is evidence that ordinary workers in the art of liquid crystals would find the reason, suggestion, or motivation to use a chemically etched glass transparent panel as having art recognized suitability for the intended purpose of achieving desired anti-glare performance (MPEP 2144.07).

Therefore, it would have been obvious to one having ordinary skill in the art of liquid crystals at the time the invention was made to modify the LCD of Abileah in view of Sanelle with the chemically etched glass transparent panel of the prior art cited by Varaprasad to achieve desired anti-glare performance.

Response to Arguments

Applicant's arguments filed on 27 May 2005 have been fully considered but they are not persuasive. Many of Applicant's arguments are moot due to new grounds of rejection.

Applicant's ONLY remaining substantive arguments are as follows:

(1) Regarding base claim 1, examiner has applied multiple embodiments of Abileah.

(2) The glass panel embodiment is smooth.

(3) Dependent claims are allowable because they directly or indirectly depend from an allowable base claim.

Examiner's responses to Applicant's ONLY arguments are as follows:

(1) It is respectfully pointed out that Abileah teaches the alternate embodiments as optional variations of the first embodiment, thereby teaching their combination.

(2) It is respectfully pointed out that Abileah teaches the optional roughened surface and AR coatings are applicable to all diffusers per rejections above.

(3) It is respectfully pointed out that in so far as Applicant has not argued rejection(s) of the limitations of dependent claim(s), Applicant has acquiesced said rejection(s).

Any references cited but not applied are relevant to the instant Application.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy L. Rude whose telephone number is (571) 272-2301. The examiner can normally be reached on Mon-Thurs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



tlr

Timothy L Rude
Examiner
Art Unit 2883



Frank G. Font
Supervisory Patent Examiner
Technology Center 2800